

**FY11 SECTION 106 WORKPLAN  
REGION 4 FLORIDA**

EPA Technical Point of Contact: Allison Humphris

EPA Project Officer: Jennifer Shadle

State Point of Contact: Daryll Joyner

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**Date of latest workplan revision: July 12, 2010**

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**Goal 2 - Clean and Safe Water**

**Goal 5 - Compliance and Environmental Stewardship**

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***Monitoring Program Elements***

1	<b>State Monitoring Strategy</b> The State will annually review and maintain a comprehensive monitoring strategy containing all of the information as outlined in <i>Elements of a State Water Monitoring and Assessment Program</i> (EPA 841-B-03-003). Strategy revisions such as refined objectives, designs, evaluation processes, general support and infrastructure needs, and other elements will be provided to EPA for review.	Program Priority & <i>Elements of a State Water Monitoring and Assessment Program</i> (EPA 841-B-03-003) <b>WQ-5</b>	Output: Revised Monitoring Strategy document.	12/31/11.	Florida submitted an excellent, comprehensive monitoring strategy in 2009. Any strategy revisions (or a written statement that 2009 strategy remains current) should be provided to EPA annually, in order to document changes and enhancements in Florida's program and allow for EPA review.	
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2	<b>Monitoring Workplan:</b> The State shall submit its projected annual monitoring and assessment workplan for FY11, consistent with the comprehensive monitoring strategy, including §106, 104, 604 and other monitoring activities.	Program Priority  <b>WQ-5</b>	Output: FY2011 monitoring Workplan document	Before 04/01/11		

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3	<b>Strategy Implementation:</b> In addition to statutory and regulatory requirements included in tasks below, the State commits to implementing one or more specific monitoring program improvements, identified in its approved monitoring strategy, and indicated in other appropriate tasks below, subject to availability of resources/funding.	Program Priority & Elements of a State Water Monitoring and Assessment Program (EPA 841-B-03-003) <b>WQ-5</b>	Output: Report on completion of Monitoring Tasks	12/31/11		



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4	<b>Designs: Probability Networks, etc.</b> The State commits to enhancing its network designs, such as probabilistic monitoring networks for making statistically valid inferences about the condition of all state water types, over time, subject to availability of resources/funding.	<i>Program Priority &amp; Elements of a State Water Monitoring and Assessment Program</i> (EPA 841-B-03-003) <b>WQ-5</b>	Output: Description of Enhanced Network Designs.	12/31/11		



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5	<b>Indicators:</b> The State commits to development of monitoring indicator capabilities [for example: additional resource types, parameters, a 2 <sup>nd</sup> biological assemblage for streams, etc.] over time, subject to availability of resources/funding.	<i>Program Priority &amp; Elements of a State Water Monitoring and Assessment Program</i> (EPA 841-B-03-003) <b>WQ-5</b>	Output: Description of Enhanced Indicator Capabilities (e.g. phytoplankton)	12/31/11		

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6	<b>BMP &amp; Restoration Effectiveness:</b> The State will monitor at least three watersheds (in EPA priority watersheds when possible) where water restoration projects (e.g., 319 BMPs, TMDLs, NPDES permit changes) have been planned and/or implemented to validate/verify WQ changes in those waterbody segments. Using data obtained before and after project implementation, State will assess the effectiveness of the water restoration strategies for attainment of water quality standards and designated uses. Specific watersheds where this activity has or will occur are: Upper Ocklawaha, Orange Creek, Long Branch, and Lower St. Johns River.	Program Priority\ <b>2.2.1</b> <b>SP-10</b> <b>SP-11</b> <b>SP-12</b>	Output: Submit monitoring data in WQX and assessment results in ADB compatible format for the water restoration projects where post project monitoring has been initiated or completed. Submit results in the IR report.	12/31/11		

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7	<b>Third Party Data:</b> To enhance limited monitoring resources, and reduce duplication of efforts, the State will scientifically review "all existing and readily-available" data (FDEP & third party), for compelling evidence of water quality impairment or improvement and will use these data as indicators of water quality as appropriate. Where warranted, the State will monitor to supplement the available data to meet data requirements and thresholds for determining the waterbody's use support status and to confirm the actual water quality condition. The State will encourage other agencies and organizations to target monitoring to define baseline conditions or watershed improvement/restoration, where such monitoring is judged appropriate by State.	Program Priority <b>2.2.1</b>	Output: Report use of third party data as indicator of change and as supplemental data in determination of waterbody water quality.	12/31/11		



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8	<b>Quality Assurance - Quality Management Plan (QMP)</b> The State commits to maintaining an up-to-date and approved Quality Management Plan (QMP) The State shall review its QMP at least annually to reconfirm its suitability and effectiveness. When significant changes occur, as defined in EPA QA/R-2, the State shall revise and resubmit the QMP to EPA for review and approval.	In accordance with EPA Order 5360.1 A2 and EPA <i>Requirements for Quality Management Plans</i> (EPA QA/R-2). <b>2.2.1</b>	Output: Reconfirm suitability of existing QMP, approved July 1, 2009, or revise as needed.	12/31/11		

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9	<b>Quality Assurance - Laboratory &amp; Other Audits:</b> The State agrees to participate in any requested reviews or audits of its monitoring and analysis program by Region 4, including, but not limited to, the following: an annual review of the QAPP(s) for the ambient surface water quality monitoring program, and a data validation audit to ensure monitoring data is of known and documented quality.	Program Priority & <i>Elements of a State Water Monitoring and Assessment Program</i> (EPA 841-B-03-003) <b>2.2.1</b>	Output: Reports status of recommendations and implementation of corrective actions, associated with SEDS audits and Region 4 review of QAPPs.	By 12/31/11, if requested		

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10	<b>Quality Assurance- Quality Assurance Project Plans (QAPPs) and Standard Operating Procedures (SOPs):</b> The State commits to develop and maintain peer reviewed Quality Assurance Project Plans (QAPPs) and Standard Operating Procedures (SOPs) consistent with the Data Quality Objective (DQO) process for ambient monitoring and specific projects to ensure the scientific validity of monitoring and laboratory activities. The State shall review its QAPPs and SOPs annually to ensure consistency with the comprehensive monitoring program strategy. Revisions to QAPPs and SOPs shall also be made to reflect program changes such as staff, sampling or analytical techniques, data quality objectives, data validation procedures or data.	Pursuant to 40 CFR 130.4(b) and EPA Order 5360.1 A2, See also: EPA QA/R-5, (EPA/240/B-01/002) (March 2001)  <b>2.2.1</b>	Output: Submittal of new or revised QAPPs to EPA-Region 4 for review and approval.	By 12/31/11, submit updated QAPP(s) which reflects current program methods and objectives, and is consistent with EPA guidance, for EPA review.		



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11	<b>Data Management, Water Quality Exchange (WQX)/STORage and RETrieval (STORET) Systems:</b> The State is required to submit geo-referenced water quality data, such as: ambient water chemistry, biology, habitat, fish tissue, toxicity and sediment chemistry data or a specific deliverable for electronic submission on or before April 1 <sup>st</sup> of each year. Annual electronic updates will be submitted using WQX/STORET utilizing EPA's established electronic data schema and data elements for submission. The State agrees to geo-reference their monitoring data to include station locations. EPA may determine that an alternate data submission satisfies the statutory annual requirement, which the State and EPA will identify and discuss before Section 106 funds are awarded.	Program Priority & Elements of a State Water Monitoring and Assessment Program (EPA 841-B-03-003)  <b>WQ-5</b>	Output: WQX transmission to STORET data warehouse of all State ambient water chemistry, biology, habitat, fish tissue, toxicity and sediment chemistry monitoring data, which reflect current cycle monitoring activities, which may include: Accepted, Validated, Preliminary, and Final monitoring results. (Note: <u>Only monitoring results marked as "Final" in State WQX transmittal are made available to the public in STORET</u> )	12/31/2011  [Report status of data management and input to WQX data warehouse.]		

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Task #	106 Workplan Task Description	Basis for 106 Workplan Task	Output/Outcome	Date Due	EPA Comments	(End-of-Year State Report/State Comments <i>Indicate whether task has been met by writing the date the task was completed. If the task is not completed, provide an explanation for any delays or issues encountered.</i> )
12	<b>Data Management: Assessment Database (ADB)</b> The State will record assessment decisions for Assessment Unit's (AU) using the most current version of ADB or an ADB-equivalent database. ADB equivalent databases must conform to EPA required data elements and schema. The State will provide a 305(b) ADB file containing waterbody segmentation and re-segmentation changes for current and previous cycles. Florida will utilize the 1:24K scale to geo-reference all AU locations, to meet the state's needs.	2006 IR Guidance and Updates  <b>WQ-7</b>	Assessment Database (ADB) or an equivalent database using required EPA data elements and ADB schema. Geo-referenced data files depicting the location of every AU in the ADB or equivalent database will be submitted in the form of point, line and/or polygon Geographic Information System (GIS) layers or NHD reach indexing tables.	04/01/2011	EPA understands that DEP currently uses WBIDs as the AU for purposes of IR assessment, but is developing a 1:24K NHD state coverage. EPA requests that DEP provide GIS layers and/or tables in both WBID and NHD formats.	



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REGION 4 FLORIDA**

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**Goal 2 - Clean and Safe Water**

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13	<b>Data Analysis and Assessment</b> <b>Methods:</b> The State will document updates and refine its comprehensive, scientifically valid assessment methods for data and/or waterbody type, including use of State and third party data, considering trends, and incorporating the full range of available data.	Program Priority & <i>Elements of a State Water Monitoring and Assessment Program</i> (EPA 841-B-03-003) <b>WQ-5</b>	Output: The State's current Listing and Assessment Methods Report.	12/31/11		



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14	<b>Reporting - § 305(b) or Electronic Update and Assessment Data Base (ADB):</b> The State shall submit its biennial 305(b) report pursuant to CWA § 305(b) as part of the Integrated (305(b)/303(d) Report. Each year, the State shall submit its annual electronic update of key monitoring information along with ADB-compatible assessment data (when the State has converted to ADB-format) for all the waters assessed during the previous year. The geo-referenced data files will include the minimum data elements in accordance with the Appendices A & B of the 2006 Integrated Report Guidance.	CWA § 303(d) and 305(b), IR Guidance, 40 CFR 130.8(d)  <b>SP-10</b> <b>SP-11</b> <b>SP-12</b> <b>SP-13</b> <b>WQ-7</b>	Output: Annual Update	04/01/11		

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15	<b>State's Evaluation:</b> The State will evaluate its monitoring and assessment program through processes/activities such as staff input, peer review, etc. and document how well the state's monitoring designs and systems meet its objectives and decision needs.	Program Priority & <i>Elements of a State Water Monitoring and Assessment Program</i> (EPA 841-B-03-003) <b>WQ-5</b>	Output: State self-assessment of monitoring & assessment program	12/31/11		

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16	<b>Joint Evaluation/ Progress Report:</b> The State will assist EPA to conduct Annual Evaluations of progress in implementing workplan commitments by providing status reports for each task. The reports should be included in the column of this workplan labeled State Comments.	Program Priority Regulatory Requirement 40 CFR 31.40 (b) 40 CFR 35.115 (a)  <b>2.2.1</b>	Output: 106 Annual Progress Report	12/31/11		



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***Monitoring Program Elements***

1	<b>State Monitoring Strategy</b> The State will annually review and maintain a comprehensive monitoring strategy containing all of the information as outlined in <i>Elements of a State Water Monitoring and Assessment Program</i> (EPA 841-B-03-003). Strategy revisions such as refined objectives, designs, evaluation processes, general support and infrastructure needs, and other elements will be provided to EPA for review.	Program Priority & <i>Elements of a State Water Monitoring and Assessment Program</i> (EPA 841-B-03-003) <b>WQ-5</b>	Output: Revised Monitoring Strategy document.	12/31/11.	Florida submitted an excellent, comprehensive monitoring strategy in 2009. Any strategy revisions (or a written statement that 2009 strategy remains current) should be provided to EPA annually, in order to document changes and enhancements in Florida's program and allow for EPA review.	
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2	<b>Monitoring Workplan:</b> The State shall submit its projected annual monitoring and assessment workplan for FY11, consistent with the comprehensive monitoring strategy, including §106, 104, 604 and other monitoring activities.	Program Priority  <b>WQ-5</b>	Output: FY2011 monitoring Workplan document	Before 04/01/11		

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3	<b>Strategy Implementation:</b> In addition to statutory and regulatory requirements included in tasks below, the State commits to implementing one or more specific monitoring program improvements, identified in its approved monitoring strategy, and indicated in other appropriate tasks below, subject to availability of resources/funding.	Program Priority & <i>Elements of a State Water Monitoring and Assessment Program</i> (EPA 841-B-03-003) <b>WQ-5</b>	Output: Report on completion of Monitoring Tasks	12/31/11		



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4	<b>Designs: Probability Networks, etc.</b> The State commits to enhancing its network designs, such as probabilistic monitoring networks for making statistically valid inferences about the condition of all state water types, over time, subject to availability of resources/funding.	<i>Program Priority &amp; Elements of a State Water Monitoring and Assessment Program</i> (EPA 841-B-03-003) <b>WQ-5</b>	Output: Description of Enhanced Network Designs.	12/31/11		

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5	<b>Indicators:</b> The State commits to development of monitoring indicator capabilities [for example: additional resource types, parameters, a 2 <sup>nd</sup> biological assemblage for streams, etc.] over time, subject to availability of resources/funding.	<i>Program Priority &amp; Elements of a State Water Monitoring and Assessment Program</i> (EPA 841-B-03-003) <b>WQ-5</b>	Output: Description of Enhanced Indicator Capabilities (e.g. phytoplankton)	12/31/11		

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6	<b>BMP &amp; Restoration Effectiveness:</b> The State will monitor at least three watersheds (in EPA priority watersheds when possible) where water restoration projects (e.g., 319 BMPs, TMDLs, NPDES permit changes) have been planned and/or implemented to validate/verify WQ changes in those waterbody segments. Using data obtained before and after project implementation, State will assess the effectiveness of the water restoration strategies for attainment of water quality standards and designated uses. Specific watersheds where this activity has or will occur are: Upper Ocklawaha, Orange Creek, Long Branch, and Lower St. Johns River.	Program Priority\ <b>2.2.1</b> <b>SP-10</b> <b>SP-11</b> <b>SP-12</b>	Output: Submit monitoring data in WQX and assessment results in ADB compatible format for the water restoration projects where post project monitoring has been initiated or completed. Submit results in the IR report.	12/31/11		



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7	<b>Third Party Data:</b> To enhance limited monitoring resources, and reduce duplication of efforts, the State will scientifically review "all existing and readily-available" data (FDEP & third party), for compelling evidence of water quality impairment or improvement and will use these data as indicators of water quality as appropriate. Where warranted, the State will monitor to supplement the available data to meet data requirements and thresholds for determining the waterbody's use support status and to confirm the actual water quality condition. The State will encourage other agencies and organizations to target monitoring to define baseline conditions or watershed improvement/restoration, where such monitoring is judged appropriate by State.	Program Priority <b>2.2.1</b>	Output: Report use of third party data as indicator of change and as supplemental data in determination of waterbody water quality.	12/31/11		

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**Goal 2 - Clean and Safe Water**

**Goal 5 - Compliance and Environmental Stewardship**

Task #	106 Workplan Task Description	Basis for 106 Workplan Task	Output/Outcome	Date Due	EPA Comments	(End-of-Year State Report/State Comments <i>Indicate whether task has been met by writing the date the task was completed. If the task is not completed, provide an explanation for any delays or issues encountered.</i> )
8	<b>Quality Assurance - Quality Management Plan (QMP)</b> The State commits to maintaining an up-to-date and approved Quality Management Plan (QMP) The State shall review its QMP at least annually to reconfirm its suitability and effectiveness. When significant changes occur, as defined in EPA QA/R-2, the State shall revise and resubmit the QMP to EPA for review and approval.	In accordance with EPA Order 5360.1 A2 and EPA <i>Requirements for Quality Management Plans</i> (EPA QA/R-2). <b>2.2.1</b>	Output: Reconfirm suitability of existing QMP, approved July 1, 2009, or revise as needed.	12/31/11		

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9	<b>Quality Assurance - Laboratory &amp; Other Audits:</b> The State agrees to participate in any requested reviews or audits of its monitoring and analysis program by Region 4, including, but not limited to, the following: an annual review of the QAPP(s) for the ambient surface water quality monitoring program, and a data validation audit to ensure monitoring data is of known and documented quality.	Program Priority & <i>Elements of a State Water Monitoring and Assessment Program</i> (EPA 841-B-03-003) <b>2.2.1</b>	Output: Reports status of recommendations and implementation of corrective actions, associated with SEDS audits and Region 4 review of QAPPs.	By 12/31/11, if requested		



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10	<b>Quality Assurance- Quality Assurance Project Plans (QAPPs) and Standard Operating Procedures (SOPs):</b> The State commits to develop and maintain peer reviewed Quality Assurance Project Plans (QAPPs) and Standard Operating Procedures (SOPs) consistent with the Data Quality Objective (DQO) process for ambient monitoring and specific projects to ensure the scientific validity of monitoring and laboratory activities. The State shall review its QAPPs and SOPs annually to ensure consistency with the comprehensive monitoring program strategy. Revisions to QAPPs and SOPs shall also be made to reflect program changes such as staff, sampling or analytical techniques, data quality objectives, data validation procedures or data.	Pursuant to 40 CFR 130.4(b) and EPA Order 5360.1 A2, See also: EPA QA/R-5, (EPA/240/B-01/002) (March 2001)  <b>2.2.1</b>	Output: Submittal of new or revised QAPPs to EPA-Region 4 for review and approval.	By 12/31/11, submit updated QAPP(s) which reflects current program methods and objectives, and is consistent with EPA guidance, for EPA review.		

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11	<b>Data Management, Water Quality Exchange (WQX)/STORage and RETrieval (STORET) Systems:</b> The State is required to submit geo-referenced water quality data, such as: ambient water chemistry, biology, habitat, fish tissue, toxicity and sediment chemistry data or a specific deliverable for electronic submission on or before April 1 <sup>st</sup> of each year. Annual electronic updates will be submitted using WQX/STORET utilizing EPA's established electronic data schema and data elements for submission. The State agrees to geo-reference their monitoring data to include station locations. EPA may determine that an alternate data submission satisfies the statutory annual requirement, which the State and EPA will identify and discuss before Section 106 funds are awarded.	Program Priority & Elements of a State Water Monitoring and Assessment Program (EPA 841-B-03-003)  <b>WQ-5</b>	Output: WQX transmission to STORET data warehouse of all State ambient water chemistry, biology, habitat, fish tissue, toxicity and sediment chemistry monitoring data, which reflect current cycle monitoring activities, which may include: Accepted, Validated, Preliminary, and Final monitoring results. ( <u>Note: Only monitoring results marked as "Final" in State WQX transmittal are made available to the public in STORET</u> )	12/31/2011  [Report status of data management and input to WQX data warehouse.]		



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12	<b>Data Management: Assessment Database (ADB)</b> The State will record assessment decisions for Assessment Unit's (AU) using the most current version of ADB or an ADB-equivalent database. ADB equivalent databases must conform to EPA required data elements and schema. The State will provide a 305(b) ADB file containing waterbody segmentation and re-segmentation changes for current and previous cycles. Florida will utilize the 1:24K scale to geo-reference all AU locations, to meet the state's needs.	2006 IR Guidance and Updates  <b>WQ-7</b>	Assessment Database (ADB) or an equivalent database using required EPA data elements and ADB schema. Geo-referenced data files depicting the location of every AU in the ADB or equivalent database will be submitted in the form of point, line and/or polygon Geographic Information System (GIS) layers or NHD reach indexing tables.	04/01/2011	EPA understands that DEP currently uses WBIDs as the AU for purposes of IR assessment, but is developing a 1:24K NHD state coverage. EPA requests that DEP provide GIS layers and/or tables in both WBID and NHD formats.	



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13	<b>Data Analysis and Assessment</b> <b>Methods:</b> The State will document updates and refine its comprehensive, scientifically valid assessment methods for data and/or waterbody type, including use of State and third party data, considering trends, and incorporating the full range of available data.	Program Priority & <i>Elements of a State Water Monitoring and Assessment Program</i> (EPA 841-B-03-003) <b>WQ-5</b>	Output: The State's current Listing and Assessment Methods Report.	12/31/11		

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14	<b>Reporting - § 305(b) or Electronic Update and Assessment Data Base (ADB):</b> The State shall submit its biennial 305(b) report pursuant to CWA § 305(b) as part of the Integrated (305(b)/303(d) Report. Each year, the State shall submit its annual electronic update of key monitoring information along with ADB-compatible assessment data (when the State has converted to ADB-format) for all the waters assessed during the previous year. The geo-referenced data files will include the minimum data elements in accordance with the Appendices A & B of the 2006 Integrated Report Guidance.	CWA § 303(d) and 305(b), IR Guidance, 40 CFR 130.8(d)  <b>SP-10</b> <b>SP-11</b> <b>SP-12</b> <b>SP-13</b> <b>WQ-7</b>	Output: Annual Update	04/01/11		

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15	<b>State's Evaluation:</b> The State will evaluate its monitoring and assessment program through processes/activities such as staff input, peer review, etc. and document how well the state's monitoring designs and systems meet its objectives and decision needs.	Program Priority & Elements of a State Water Monitoring and Assessment Program (EPA 841-B-03-003) <b>WQ-5</b>	Output: State self-assessment of monitoring & assessment program	12/31/11		



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16	<b>Joint Evaluation/ Progress Report:</b> The State will assist EPA to conduct Annual Evaluations of progress in implementing workplan commitments by providing status reports for each task. The reports should be included in the column of this workplan labeled State Comments.	Program Priority Regulatory Requirement 40 CFR 31.40 (b) 40 CFR 35.115 (a)  <b>2.2.1</b>	Output: 106 Annual Progress Report	12/31/11		